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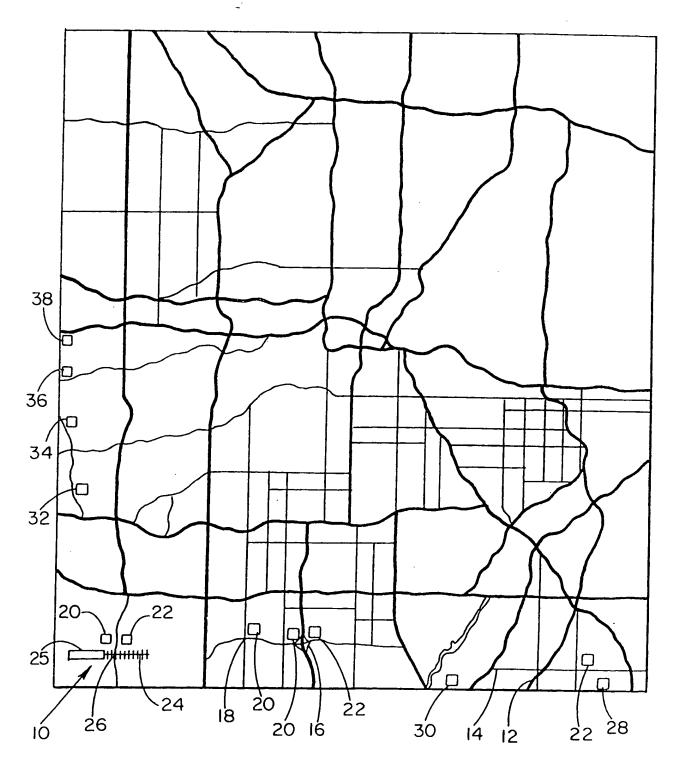
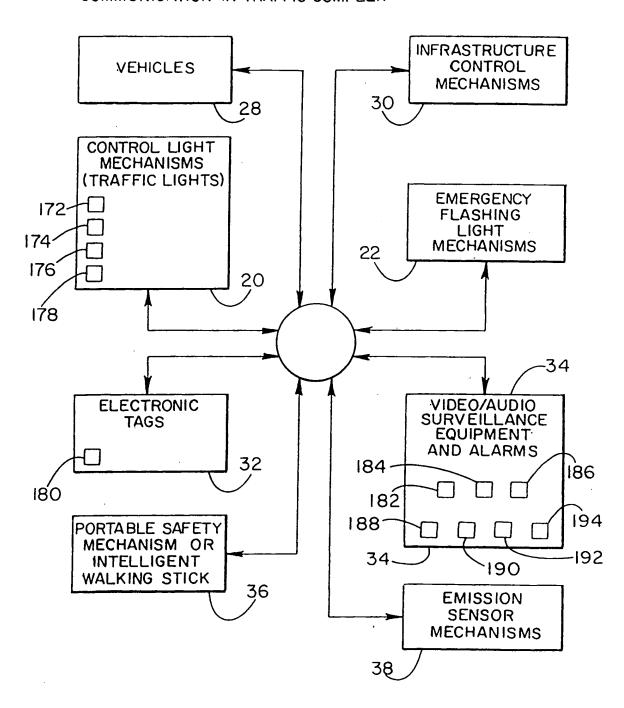


Fig.-2

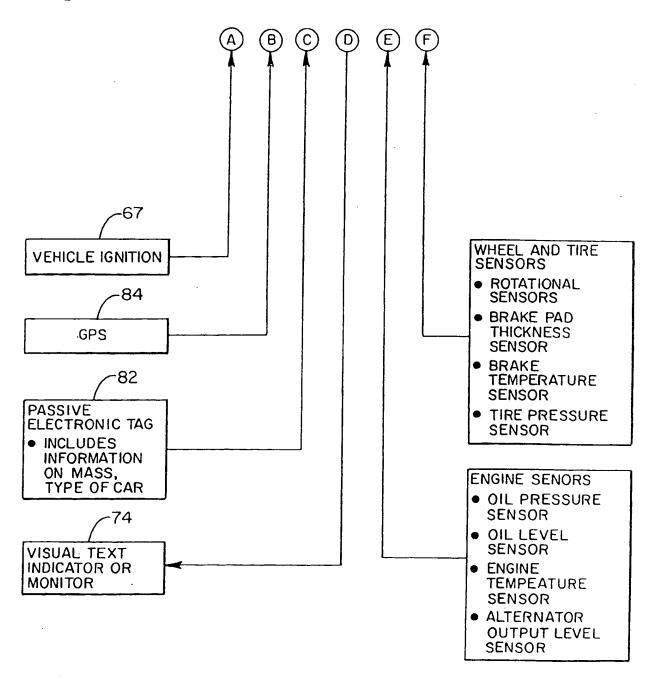
COMMUNICATION IN TRAFFIC COMPLEX

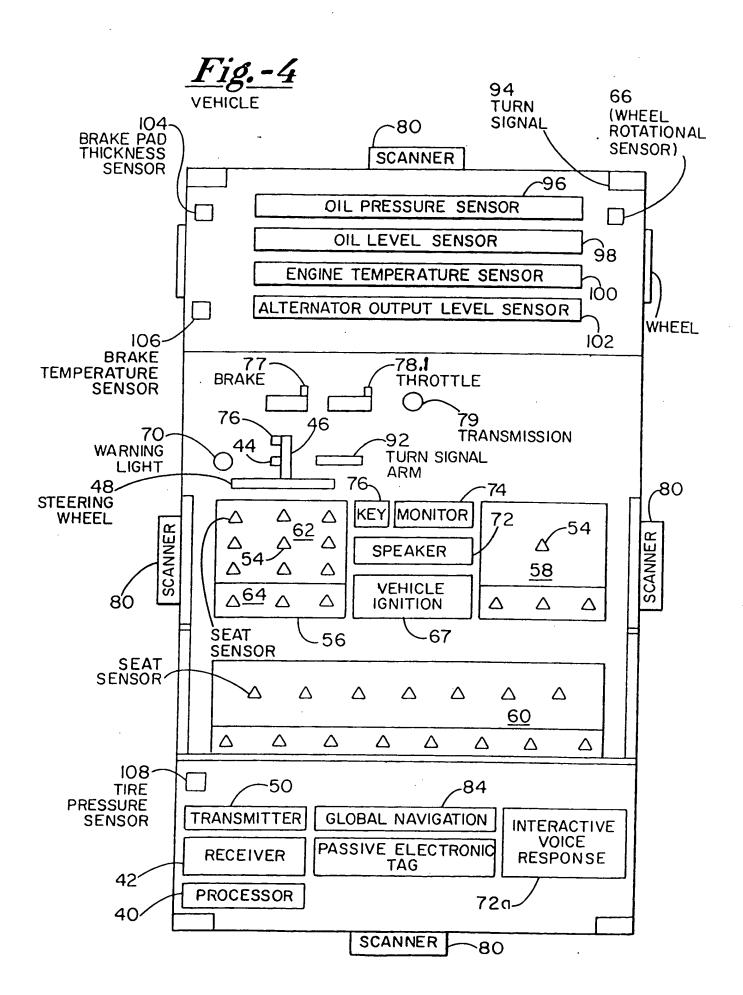


<u>Fig.-3A</u>

VEHICLE (AUTOMOBILE, TRUCK, BUS, EMERGENCY VEHICLE, RIGHT-OF-WAY VEHICLES) 42 78 -50 REMOTE TRANSMITTER RECEIVER: CONTROL **MECHANISM** 40 ~80 VEHICLE PROCESSOR 78.1 INCLUDES INFORMATION ON SCANNER OR THROTTLE VEHICLE IDENTIFICATION **OUTSIDE IMAGE** SIGNAL WITH PRIORITY **SENSOR** 412 INCLUDES INFORMATION ON SPEED, LOCATION, AND DIRECTION OF VEHICLE SAFETY RESTRAINTS 68 INCLUDES INFORMATION ON DRIVER WARNING NORMAL STEERING, BRAKE, DEVICE AND ACCELERATOR ACTION BRAKES VISUAL INCLUDES INFORMATION ON AUDIO NORMAL SEAT SHIFTING 44 INCLUDES INFORMATION ON STEERING THRESHOLD VARIATION IN THE ROTATIONAL SPEED -72 -86 OF WHEEL TURN GATHERS INFORMATION ON **SPEAKER** SIGNALS HOW ACCELERATOR, BRAKE, AND STEERING MECHANIZM -414 IS USED AND DEVELOPS A ANTI-SKID BASELINE OF SUCH USE SYSTEM EMERGENCY VEHICLE 54 PROCESSOR INCLUDES **ENCRYPTOR** SEAT SENSOR TRANSMISSION INTERACTIVE VOICE RESPONSE (c)

<u>Fig.-3B</u>

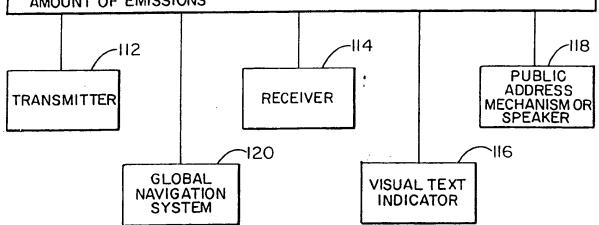




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PROCESSOR

- RECEPTION AND PROCESSING OF IDENTIFICATION NUMBERS OF VEHICLES
- RECEPTION AND PROCESSING OF INFORMATION ON SPEED, LOCATION, AND DIRECTION OF VEHICLES
- COUNT OF VEHICLES
- TRACKING OF VEHICLES
- CONTROL OF CONTROL LIGHTS
- INFORMATION ON EMISSION LEVELS, UNDESIRABLE EMISSION LEVELS
- INFORMATION ON RELATION BETWEEN NUMBER OF VEHICLES AND AMOUNT OF EMISSIONS



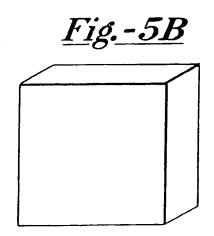
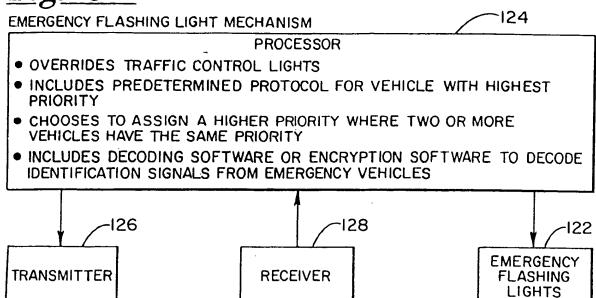


Fig. -6A



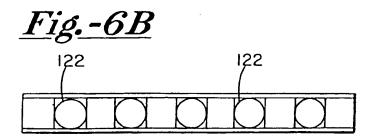
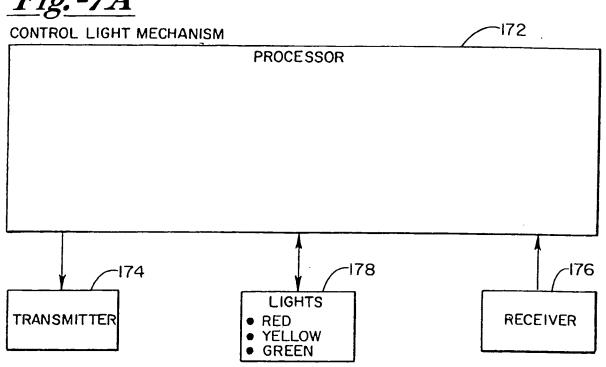


Fig. -7A



<u>Fig. -7B</u>

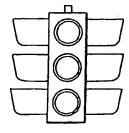
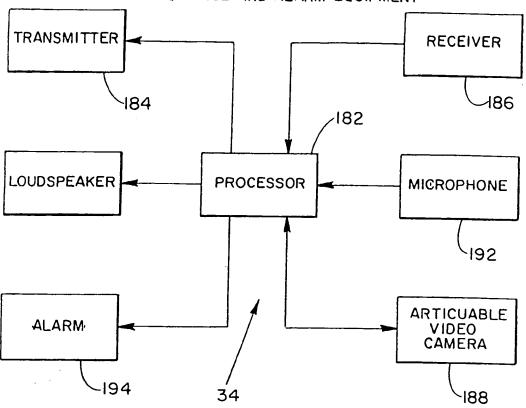
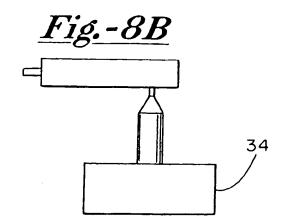
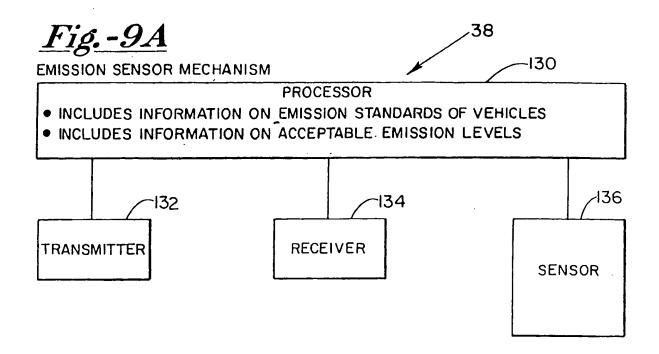


Fig. -8A

VIDEO/AUDIO SURVEILLANCE AND ALARM EQUIPMENT







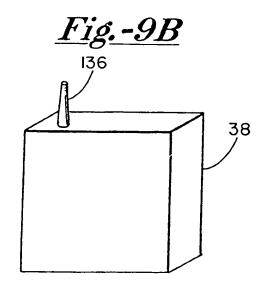


Fig.-10A

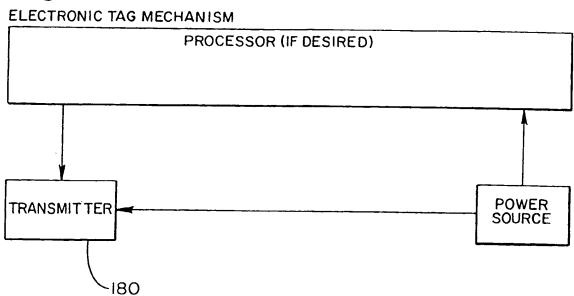


Fig. - 10B

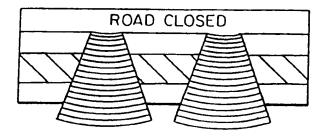
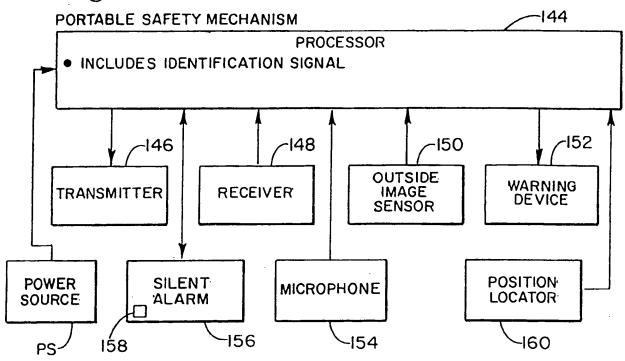
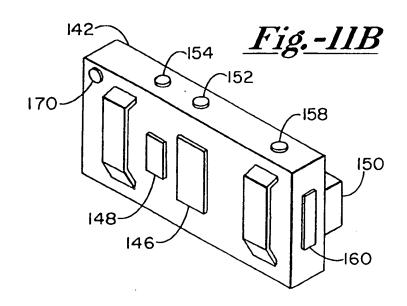


Fig.-IIA





<u>Fig.-12B</u> INTELLIGENT <u>Fig.-12C</u> WALKING STICK HANDLE MICROPHONE - HANDLE RECEIVER - BATTERY 302 MICROPHONE - OSCILLATOR 312 **TELESCOPING** 316 314 ← MODULATOR **3**06 -TRANSMITTER 318 – ANTENNA TELESCOPING 320 322 SCANNER AND SENSOR ARRAY - DUPLEXER 323 - RECEIVER 300 328 324 **←** PROCESSOR 326 ← WARNING DEVICE 308 <u>Fig.-12A</u> **GLOBAL POSITIONING** 330 **SYSTEM** AUTOMATIC VEHICLE CONTROL 332 INTERVENTION -GLASSES **SENSORS & SCANNERS ARRAY** 334 -VIDEO & DIGITAL IMAGE MICROPHONE, 336 **PROCESSING** RECEIVER AND INTERACTIVE VOICE RESPONSE -ANTENNA 338 INTERACTIVE 310 **VOICE RESPONSE** 340 BALL & 342 SOCKET 300 304

Fig.-13

COMMUNICATIONS

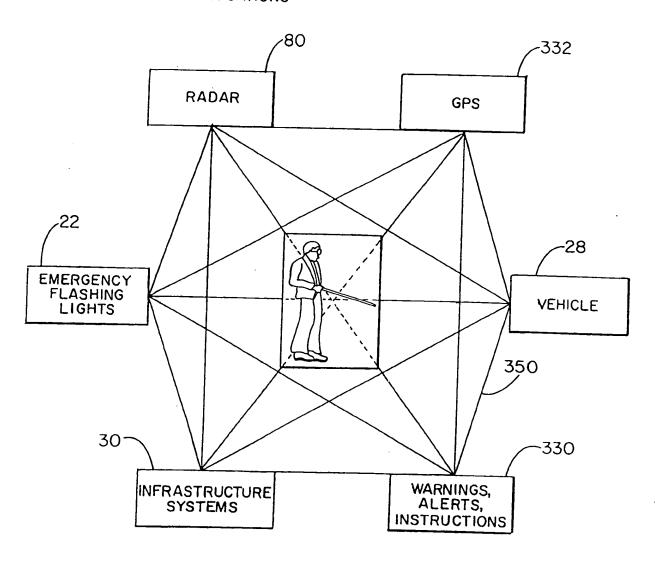


Fig.-14A

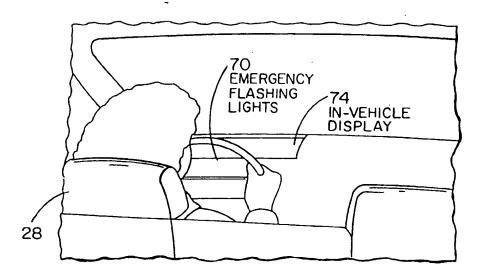
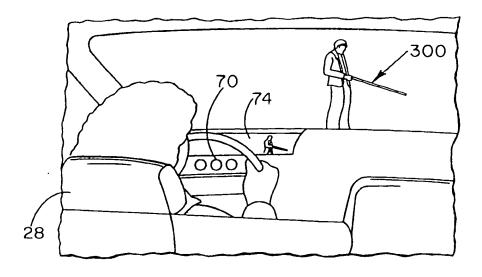


Fig.-14B



<u>Fig.-15A</u>

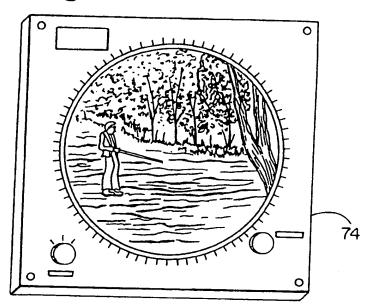


Fig.-15B

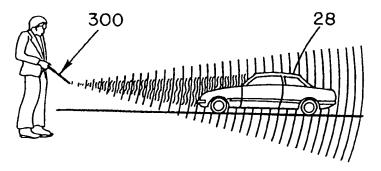
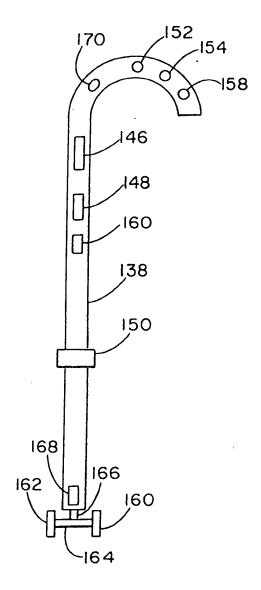


Fig.-16A



<u>Fig.-16B</u>

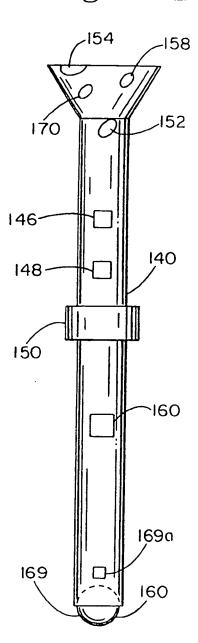


Fig. -17A
ANTISKID SYSTEM

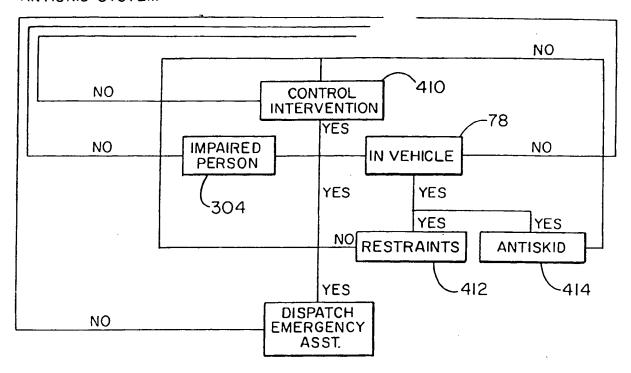
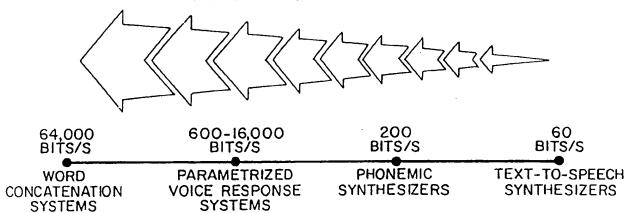
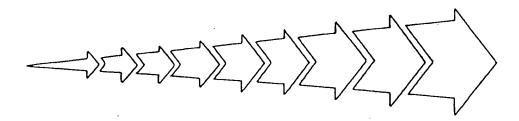


Fig.-17B

Fig.-18 (PRIOR ART) INTERACTIVE VOICE RESPONSE

INCREASING STORAGE REQUIREMENTS

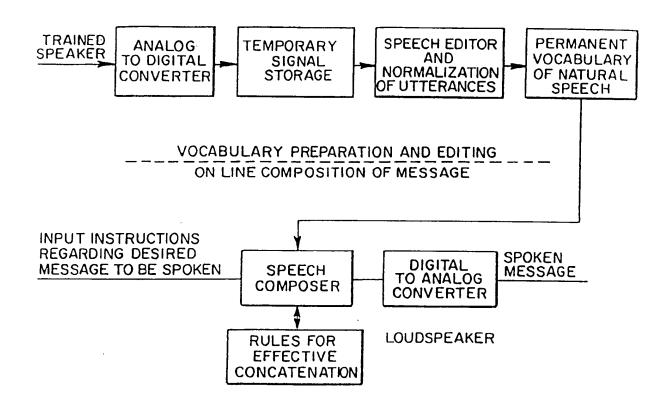




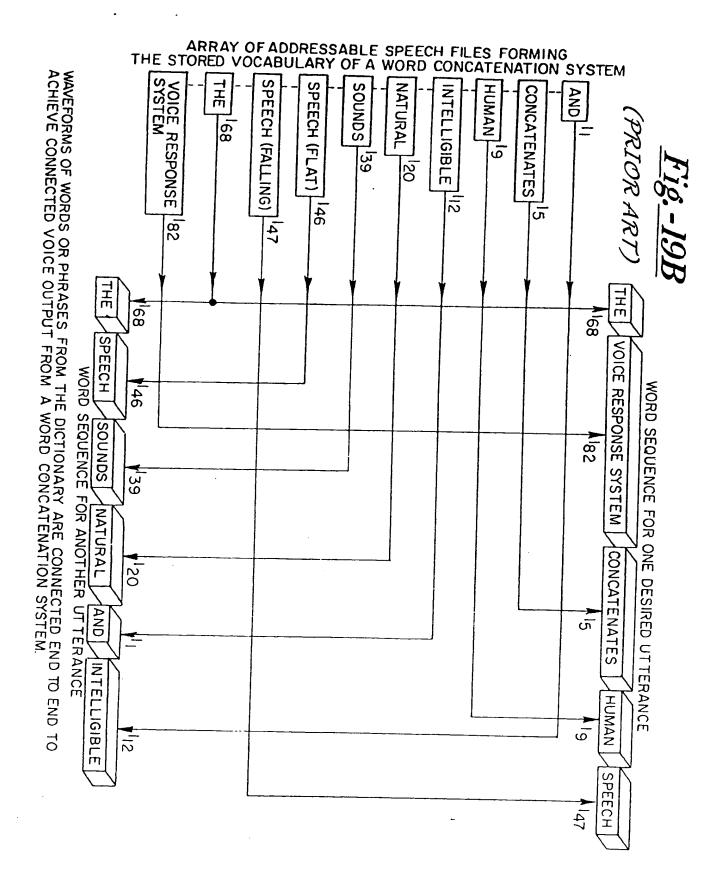
INCREASING COMPLEXITY OF SYNTHESIS EQUIPMENT

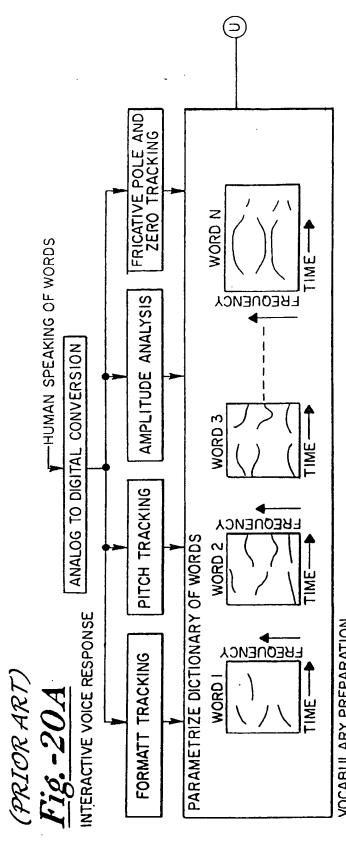
SPECTRUM OF ALTERNATIVE TYPES OF VOICE RESPONSE SYSTEMS.

Fig.-19A (PRIOR ART) INTERACTIVE VOICE RESPONSE



VOICE RESPONSE SYSTEM WHICH IS BASED UPON CONCATENATION OF WORDS SPOKEN BY A HUMAN.





VOCABULARY PREPARATION

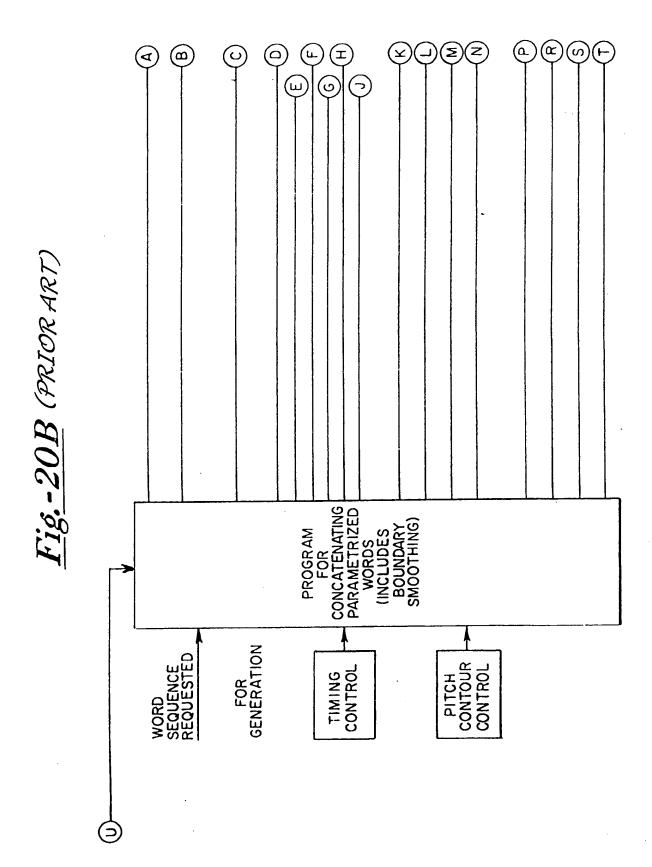


Fig. -20C (PRIOR ART)

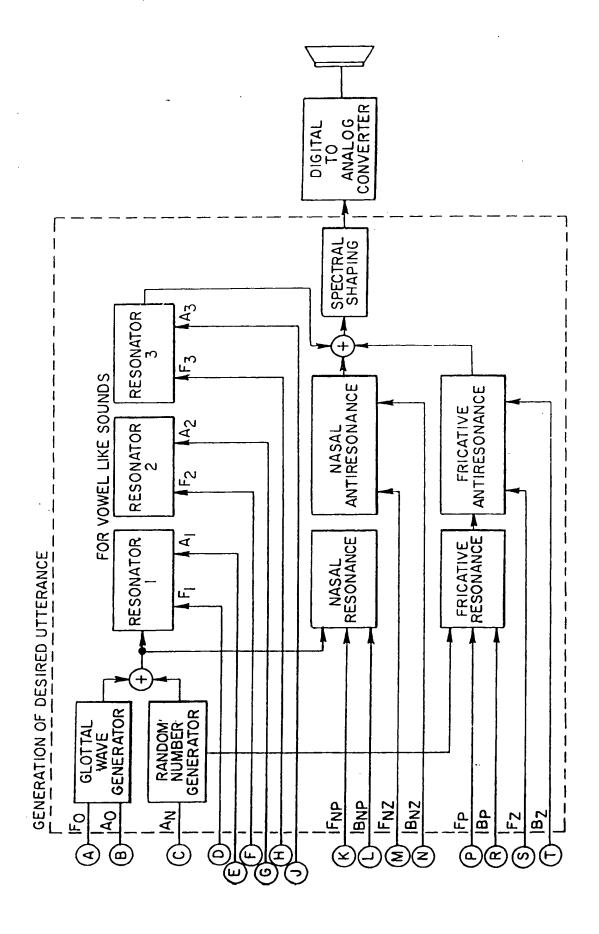
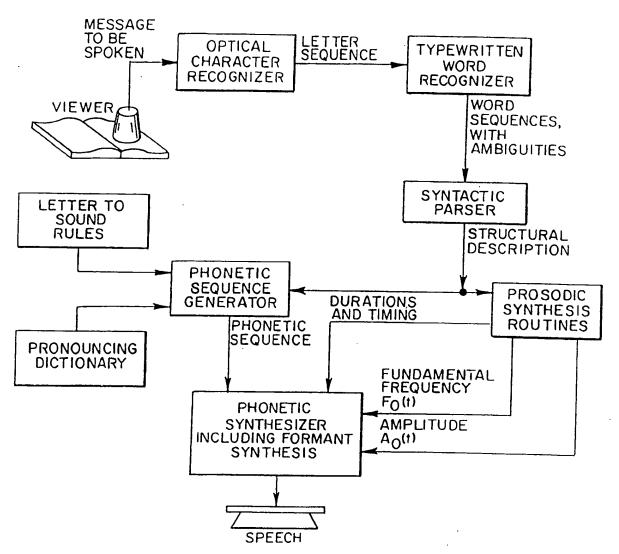


Fig. -21A (PRIOR ART)

INTERACTIVE VOICE RESPONSE



TEXT TO SPEECH SYSTEM FOR GENERATING COMPLEX SENTENCES WITH LARGE VOCABULARIES

Fig.-21B (PRIORART)

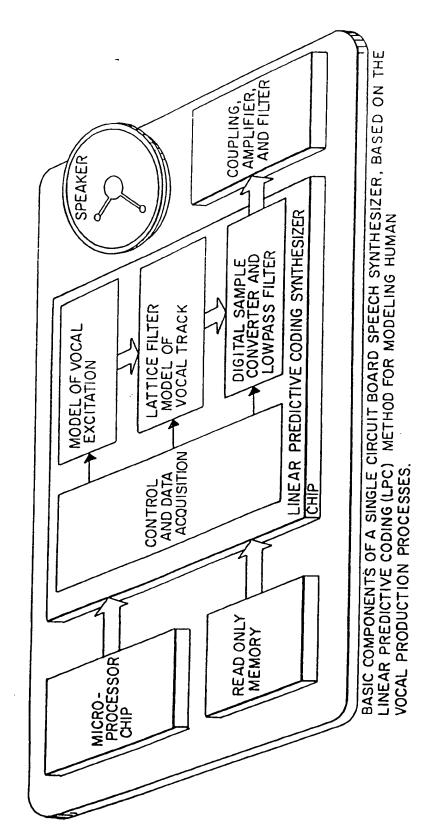
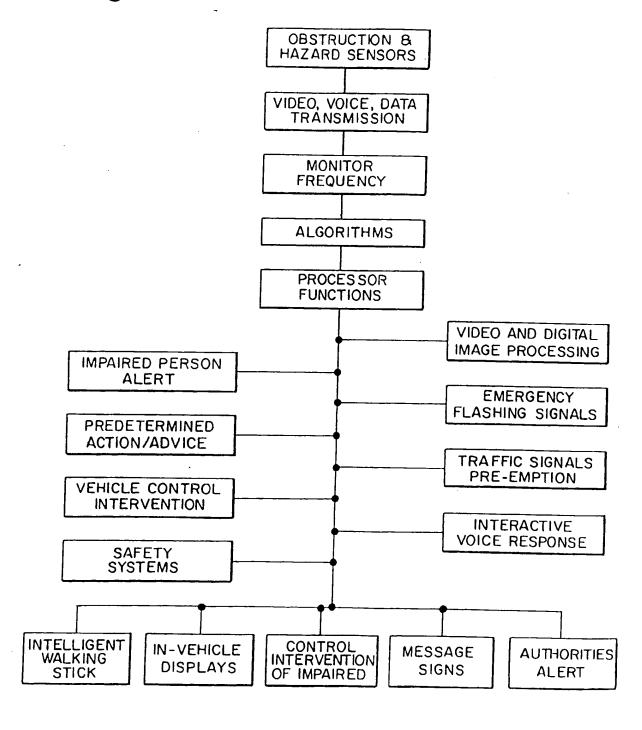


Fig. -22



<u>Fig.-23</u>



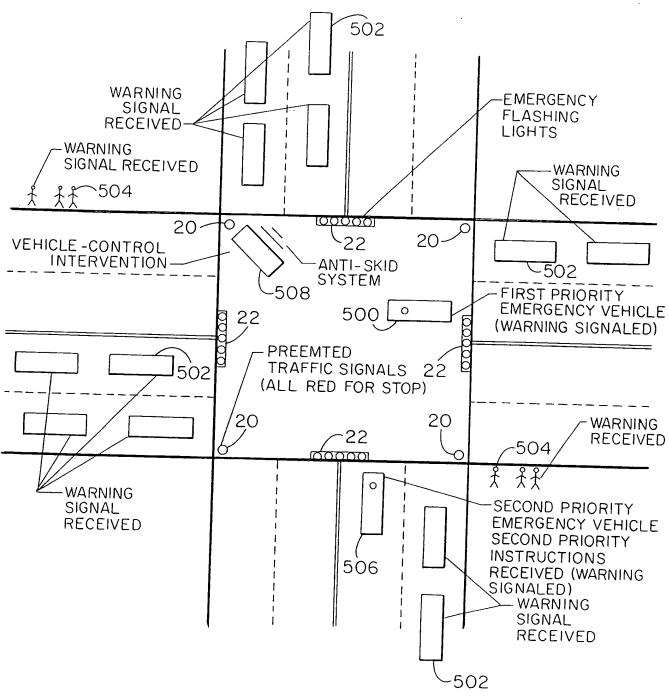
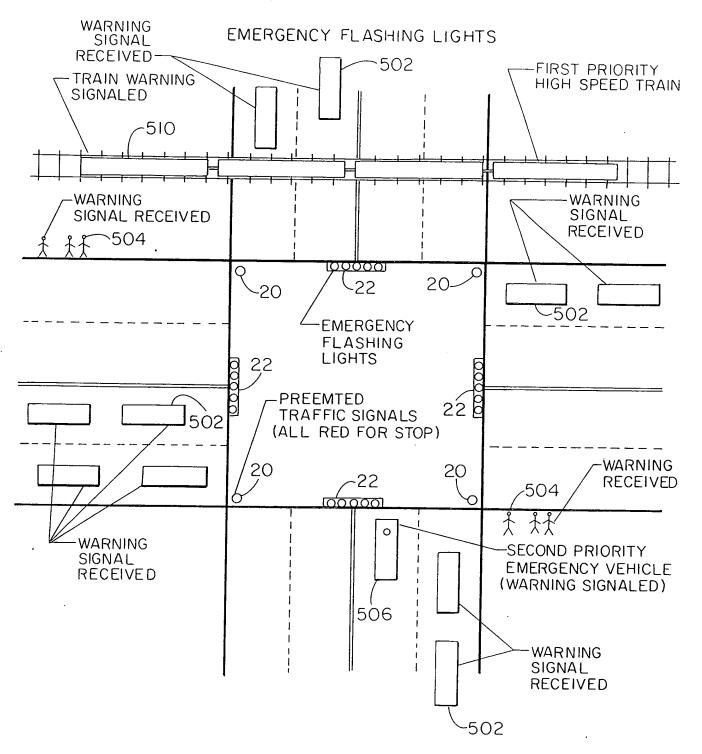
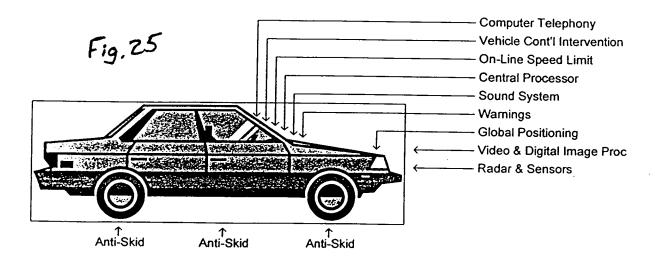
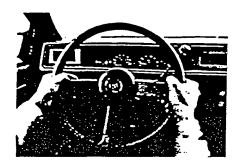


Fig.-24

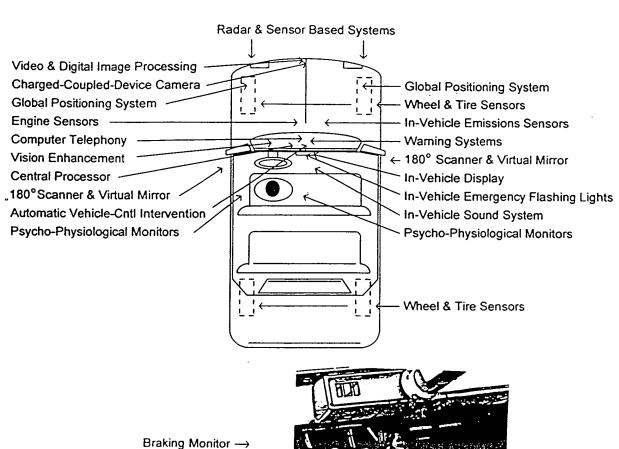








← Steering Monitor ← Lane Change Monitor



Throttle Monitor →



